

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization International Bureau



(43) International Publication Date
17 February 2005 (17.02.2005)

PCT

(10) International Publication Number
WO 2005/014553 A1

(51) International Patent Classification⁷: C07D 231/12, 401/12, 403/12, 409/12, 417/06, A61K 31/38, 31/415, 31/433, 31/4439, A61P 25/28

[GB/GB]; Terlings Park, Eastwick Road, Harlow Essex CM20 2QR (GB).

(21) International Application Number:
PCT/GB2004/003277

(74) Agent: BUCHAN, Gavin, MacNicol; Terlings Park, Eastwick Road, Harlow, Essex CM20 2QR (GB).

(22) International Filing Date: 29 July 2004 (29.07.2004)

(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
0318447.0 5 August 2003 (05.08.2003) GB

(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

— with international search report

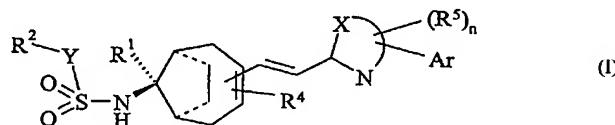
For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(71) Applicant (for all designated States except US): MERCK SHARP & DOHME LIMITED [GB/GB]; Hertford Road, Hoddesdon Hertfordshire EN11 9BU (GB).

(72) Inventors; and

(75) Inventors/Applicants (for US only): BETTATTI, Michela [IT/GB]; Terlings Park, Eastwick Road, Harlow Essex CM20 2QR (GB). BOASE, Amanda, Louise [GB/GB]; Terlings Park, Eastwick Road, Harlow Essex CM20 2QR (GB). CHURCHER, Ian [GB/GB]; Terlings Park, Eastwick Road, Harlow Essex CM20 2QR (GB). LADDUWAHETTY, Tamara [GB/GB]; Terlings Park, Eastwick Road, Harlow Essex CM20 2QR (GB). MERCHANT, Kevin, John [GB/GB]; Terlings Park, Eastwick Road, Harlow Essex CM20 2QR (GB). QUDDUS, Abdul

(54) Title: NOVEL GAMMA-SECRETASE INHIBITORS



WO 2005/014553 A1

(57) Abstract: Compounds of Formula (I): inhibit the processing of APP by gamma-secretase, and hence are useful for treatment or prevention of Alzheimer's disease.